INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019297

| A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01J9/22, H01J29/28 | | | | |
|---|--|--|------------------------|--|
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | |
| B. FIELDS SEARCHED | | | | |
| Minimum docum Int.Cl ⁷ | nentation searched (classification system followed by classification syste | assification symbols) | | |
| Jitsuyo Kokai Ji | | tsuyo Shinan Toroku Koho roku Jitsuyo Shinan Koho | 1996-2005 1994-2005 | |
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| C. DOCUMEN | ITS CONSIDERED TO BE RELEVANT | | | |
| Category* | Citation of document, with indication, where ap | | Relevant to claim No. | |
| Х | JP 2001-328229 A (Sony Corp. 27 November, 2001 (27.11.01), Par. Nos. [0020] to [0026], [& EP 1160822 A1 & US | | 1,3,6 | |
| A | JP 2002-141000 A (Toshiba Co 17 May, 2002 (17.05.02), Full text; all drawings & EP 1336981 A1 | rp.) _. , | 1-7 | |
| А | JP 2001-291469 A (Toshiba Co 19 October, 2001 (19.10.01), Full text; all drawings & EP 1255275 A1 & US | | 1-7 | |
| Further documents are listed in the continuation of Box C. See patent family annex. | | | | |
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed | | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family | | |
| Date of the actual completion of the international search 28 March, 2005 (28.03.05) | | Date of mailing of the international search report 12 April, 2005 (12.04.05) | | |
| Name and mailing address of the ISA/ Japanese Patent Office | | Authorized officer | | |
| Facsimile No. Telephone No. Form PCT/ISA/210 (second sheet) (January 2004) | | | | |

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PCT/JP2004/019297

| C (Continuation) | DOCUMENTS CONSIDERED TO BE RELEVANT | |
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| A . | JP 63-102139 A (Toshiba Corp.), 07 May, 1988 (07.05.88), Full text; all drawings (Family: none) | 1-7 |
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| | 0 (continuation of second sheet) (January 2004) | |